## MT-24: 24th International Conference on Magnet Technology, 2015

We are pleased to invite you to MT24, the 24<sup>th</sup> International Conference on Magnet Technology, which will take place in Seoul, Korea form October 18 to 23, 2015. It is our great pleasure to host MT24 in 2015, which will be the 50th anniversary of International Conference on Magnet Technology.

MT24 will cover magnet technology ranging from large scale magnets to magnets for home appliances. The most powerful particle accelerator, the Large Hardron Collider (LHC) at CERN, cannot be fabricated without an advanced magnet technology. The nuclear fusion reactor of the International Thermonuclear Experimental Reactor (ITER) is another example for which magnet technology plays a crucial role. During the Conference, there will be an official visit of the Korea Superconducting Tokamak Advanced Research (KSTAR) facilities which is operated by the National Fusion Research Institute, Korea. All components and materials related to the construction of magnets are the scope of the MT24. Design methods and analysis tools of the magnet system and the magnet itself are amongst essential topics of MT24. MT24 will provide you with a great opportunity to see cutting-edge magnet technologies.

- ➤ Web page : <a href="http://www.mt24.org">http://www.mt24.org</a>
- Important Dates
  - ✓ Abstract Submission : January 5 ~ March 5, 2015
  - ✓ Notification of Abstract Acceptance : April 30, 2015
  - ✓ Pre-Registration : August 21 ~ October 8, 2015
  - ✓ Early Application for Exhibit : January 5 ~ June 1, 2015
  - ✓ Late Application for Exhibit : June 2 ~ August 20, 2015
  - ✓ Paper Submission : October 1 ~ October 20, 2015
- > Topics
- A. Magnets
- A01. Superconducting Accelerator Magnets
- A02. Conventional Accelerator Magnets
- A03. Wigglers, Undulators, and Solenoid Magnets
- A04. Detector Magnets
- A05. Nuclear/Fusion Magnets
- A06. Superconducting High Field Magnets
- A07. Hybrid High Field Magnets
- A08. Pulsed High Field Magnets
- A09. Resistive High Field Magnets

B01. NMR B02. MRI B03. Magnets for Medical Therapy Devices B04. Other Medical and Biological Applications C. Materials C01. Low Tc Wires and Cables C02. High Tc Wires and Cables C03. Conventional and Other Conductors C04. Permanent Magnetic Materials C05. Magnetic Materials for Flux Return C06. Structural Materials C07. Electrical Insulations C08. Mechanical Behavior of Conductors C09. Conductors for Fusion and Accelerators D. Cryogenics / Power Supply D01. Cryogenic Cooling for Magnets D02. Cooling for Conventional Magnets D03. Power Supplies for Superconducting Magnets D04. Power Supplies for Conventional Magnets D05. Current Leads D06. Quench Protection System D07. Other Magnet Components

B. Medical and Biological Applications

- E. Analysis
- E01. Magnet Design Methods
- E02. Electromagnetic Commutations
- E03. Field Quality
- E04. Quench Detection and Protection
- E05. Magnet/Coils Stability
- E06. Multi-physics Analysis
- E07. Analysis of Magnetic Field
- E08. Analysis of Mechanical Stress
- E09. Electromagnetic Analysis
- E10. HTS Design Analysis and Performance
- E11. Computational Magnet System
- E12. Test and Measurement
- F. Power Applications
- F01. Energy Storage
- F02. Motors and Generators
- F03. Transformers and FCLs
- F04. MHD Power Generation
- F05. Power Cables
- F06. Machine Design
- F07. Grid Analysis with SC Devices
- G. Industrial Applications
- G01. Levitation and Bearings
- G02. Magnetically Levitated Trains
- G03. Magnetic Separation
- G04. Crystal Growth
- G05. Magnetic Pumps
- G06. Novel Industrial Applications

- G07. Space Applications
- H. Other Applications
- H01. Magnets for Technology Development
- H02. Special Coils
- H03. Novel Applications
- H04. Superconducting Strand and Cable Characterization
- H05. Novel Diagnostic Techniques
- H06. Magnetic Measurements
- H07. Thermo-Mechanical Measurements
- H08. Permanent Magnets
- H09. Other Magnetic Materials and Applications

## Publication of paper

The MT 24 manuscripts are scheduled to be published in the vol.26, no.3, June, 2016 issue of the *IEEE Transactions* on *Applied Superconductivity*, and as such will be subject to the usual peer review procedures of the Transactions.

- Organized by KISAC (The Korean Institute of Superconductivity an Cryogenics)
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- Committee
  - Conference Chair: Guesoo Cha (Soonchunhyang University, Korea)
  - Scientific Program Committee Chair : Haigun Lee (Korea University, Korea)
  - Local Organizing Committee Chair : Sang-Soo Oh (KERI, Korea)
  - Industrial Exhibits Chair: Hunju Lee (SuNAM Co., Ltd., Korea)